

CLAIMS

1. A fast packet transmission system in which a communication terminal transmits base station selection information on a base station that the communication terminal selects corresponding to channel state, and information to manage the transmit order to base stations over the uplink, and the base station selected with the base station selection information transmits a packet over the downlink according to the information to manage the transmit order.
2. The fast packet transmission system according to claim 1, wherein only when a base station that transmits a downlink signal is switched with the base station selection information, the information to manage the transmit order is transmitted to the base station.
3. The fast packet transmission system according to claim 1, wherein the information to manage the transmit order is at least one of a packet number and a check signal to be transmitted at a time a packet is received correctly.
4. The fast packet transmission system according to claim 1, wherein the communication terminal transmits an adaptive modulation pattern with the information to manage the transmit order to the base station.
5. The fast packet transmission system according to claim 4, wherein only when a base station that transmits a downlink signal is switched with the base station selection information, the communication terminal

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apparatus transmits the adaptive modulation pattern with the information to manage the transmit order to the base station.

6. The fast packet transmission system according to claim 4, wherein only when a base station that transmits a downlink signal is switched with the base station selection information and a repeat of a packet that is erroneous in last receiving the packet is requested to the switched base station, the communication terminal transmits the adaptive modulation pattern with the information to manage the transmit order to the base station.

7. The fast packet transmission system according to claim 1, wherein the information to manage the transmit order is transmitted with transmit power higher than transmit power of other information.

8. The fast packet transmission according to claim 1, wherein the base stations and a control station that controls the base stations are provided with a restriction for synchronization, and based on the restriction, the base stations perform transmission.

9. A base station apparatus comprising:

receiving means for receiving base station selection information on a base station that a communication terminal selects corresponding to channel state, and information to manage the transmit order; transmission control means for controlling a packet

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to be transmitted, according to the information to manage the transmit order; and

transmitting means for transmitting the packet output from the transmission control means when the base station apparatus is selected with the base station selection information.

10. A communication terminal comprising:

selecting means for selecting a base station that transmits a packet in a next transmission unit, corresponding to channel state; and

transmitting means for transmitting information to manage the transmit order with transmit data to base stations.

11. The communication terminal apparatus according to claim 10, wherein only when a base station that transmits a downlink signal is switched, the communication terminal apparatus transmits the information to manage the transmit order to the base stations.